

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|---|---|------------------|---------|---------------------|
| L3    | 13   | ((writ\$4 or draw\$4 or record\$ or etch\$4) with fullerene with beam)                                      | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/03/23<br>06:32 |
| L4    | 14   | ((writ\$4 or draw\$4 or record\$ or etch\$4) with ion with beam) and<br>(fullerene near3 (ion or ioniz\$5)) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/03/23<br>06:37 |
| L5    | 16   | ((writ\$4 or draw\$4 or record\$ or etch\$4) with ion with beam) and<br>(fullerene with (ion or ioniz\$5))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/03/23<br>07:00 |
| L6    | 2    | ((("20050183667") or ("20020031615")).PN.   | US-PGPUB;<br>USPAT  | OR               | OFF     | 2009/03/23<br>07:05 |
| L7    | 2    | GB-2386747-\$.did.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/03/23<br>07:10 |
| L8    | 155  | (fullerene with (ioniz\$5 or (ion adj (source or gun))))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/03/23<br>07:12 |

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| L9  | 51  | 8 and ((electron or ion or particle) adj beam)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | ON  | 2009/03/23<br>07:13 |
| L10 | 9   | 9 and \$radiat\$4 with (sample or specimen or substrate or target or wafer) with beam | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | ON  | 2009/03/23<br>07:14 |
| L11 | 2   | 8 and (electron adj spectroscopy)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | ON  | 2009/03/23<br>07:16 |
| L12 | 8   | ("C60" with (ion adj beam))   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | ON  | 2009/03/23<br>07:22 |
| L13 | 162 | ((fullerene or "C60") with (ioniz\$5 or (ion adj (source or gun))))                   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | ON  | 2009/03/23<br>07:26 |
| L15 | 31  | 13 and (spectroscopy)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | ON  | 2009/03/23<br>07:27 |
| L16 | 1   | ("6753538").PN.   | US-PGPUB;<br>USPAT   | OR | OFF | 2009/03/23<br>07:29 |

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| L17 | 581 | (electron adj spectroscopy).ab.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>07:36 |
| L20 | 4   | 17 and (ion adj source) and (x?ray) and (detect\$4 with electrons) and (kinetic)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>07:38 |
| L21 | 19  | ("3766381"   "3772522"   "4048498"   "4737639"   "4810880"   "5006706"   "5087815"   "5162159"   "5280176"   "5315113"   "5543648"   "5579462"   "5628882"   "5888593"   "5990476"   "6104029"   "6173036"   "6259092"   "6447891").PN. OR ("7449682").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/03/23<br>07:49 |
| L22 | 49  | (fullerene with (contaminat\$5 or \$3contaminat\$5))   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>07:56 |
| L23 | 15  | 22 and (ion with fullerene)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>07:56 |
| L27 | 4   | (fullerene with (ioniz\$5 or (ion adj (source or gun)))) with \$4radiat\$4 with sample   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>08:19 |
| L28 | 5   | (fullerene with (ioniz\$5 or (ion adj (source or gun)))) with beam with sample   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>08:19 |

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| L29 | 29 | (fullerene with (ioniz\$5 or (ion adj (source or gun)))) with beam                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>08:23 |
| L30 | 2  | JP-2002365183-\$.did.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>08:24 |
| L31 | 2  | (electron adj spectroscopy) and ((fullerine or C60) with ion with (source or gun)) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>09:05 |
| L32 | 0  | (electron adj spectroscopy) and ((fullerine or C60) with ionization)               | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>09:06 |
| L33 | 1  | (electron adj spectroscopy) and ((fullerine or C60) with ioniz\$4)                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>09:06 |
| L34 | 6  | (electron adj spectroscopy) and ((fullerine or C60) with ion)                      | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/23<br>09:06 |

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| L35 | 6  | (electron with spectroscopy) and ((fullerene or C60) with ion) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/03/23<br>09:07 |
| L36 | 37 | 13 and (fullerene with \$3radiat\$4)                           | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/03/23<br>09:08 |
| L37 | 1  | ("5990476").PN.  | US-PGPUB;<br>USPAT  | OR | OFF | 2009/03/23<br>09:20 |
| L38 | 10 | ("5990476").URPN.  | USPAT   | OR | ON  | 2009/03/23<br>09:21 |
| L39 | 38 | 13 and ((fullerene or "C60") with \$3radiat\$4)                | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/03/23<br>09:25 |
| L40 | 1  | 39 not 36  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/03/23<br>09:25 |
| L41 | 51 | ((fullerene or "C60") with beam) and 13                        | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/03/23<br>09:26 |
| L42 | 34 | 41 not 39  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/03/23<br>09:27 |

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| L43 | 45    | ((fullerene or "C60") with (ioniz\$5 or (ion adj (source or gun))))).ab.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | ON  | 2009/03/23<br>09:41 |
| L44 | 35    | 43 not 41  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | ON  | 2009/03/23<br>09:41 |
| L45 | 3     | (low near2 energy near2 cluster near2 ion near2 beam)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | ON  | 2009/03/23<br>09:56 |
| L46 | 2     | JP-03163825-\$.did.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | ON  | 2009/03/23<br>10:01 |
| L47 | 5     | ("2003/0080292").URPN.   | USPAT  | OR | ON  | 2009/03/23<br>10:44 |
| L48 | 1     | ("5315113").PN.  | US-PGPUB;<br>USPAT   | OR | OFF | 2009/03/23<br>10:47 |
| L49 | 16614 | (250/306,307,308,310,311,492.1,492.2,492.21,492.3).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | OFF | 2009/03/23<br>14:20 |
| S1  | 3362  | ((((SANADA) near2 (NORIAKI)).inv.) or (((OHASHI) near2 (YOSHII HARU)).inv.) or (((OHASHI) near2 (YOSHII HARU)).inv.) or (((YAMAMOTO) near2 (AKIRA)).inv.) or (((OIWA) near2 (RETSU)).inv.) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>BM_TDB | OR | ON  | 2009/03/22<br>16:14 |

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| S2 | 3     | S1 and (electron adj spectroscopy)                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/22<br>16:16 |
| S3 | 3     | S1 and fullerene   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/22<br>16:19 |
| S4 | 11849 | fullerene  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/22<br>16:20 |
| S5 | 43    | S4 and photoelectric adj effect                          | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/22<br>16:22 |
| S6 | 2     | S5 and (fullerene with ioniz\$4)                         | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/22<br>16:23 |
| S7 | 2     | (photoelectric adj effect) and (fullerene with ioniz\$4) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/22<br>16:24 |

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| S8  | 675 | (fullerene with (ioniz\$4 or ion))                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/22<br>16:25 |
| S9  | 136 | S8 and (electron adj (microscop\$4 or spectroscop\$4)) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/22<br>16:26 |
| S10 | 13  | S9 and (kinetic near2 energy)                          | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/22<br>16:27 |
| S11 | 70  | (ion adj beam) with fullerene                          | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/22<br>16:35 |
| S12 | 15  | S11 and ((x?ray) or (x adj ray))                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/03/22<br>16:35 |

3/ 23/ 2009 2:27:03 PM

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